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U. S. Department of Agriculture.

KILN-HOUSES
FOR THE
EXTRACTION OF FOREST TREE SEEDS,

under the control of the Austrian State and the
Italian "Federazione Pro Montibus" in Rome.

A. GRÜNWARD

Member of the American Association of Nur-
serymen, the American Tree Association,
recognized by the Italian "Federazione Pro
Montibus", Rome,

FOREST SEED COLLECTOR
GREATEST SPECIALIST IN FOREST SEEDS.
WIENER-NEUSTADT, AUSTRIA.

Established 1868



August 1929

Wiener-Neustadt, August 1929.

To my Customers.

GENTLEMEN,

In presenting to my dear Friends and Customers my price-list for the season 1928/1929, I feel that I have to extend first of all my warmest thanks to them for all the kindness shown me in the past season and to solicit their support and good feelings for the future.

At the same time I beg once more to call their attention to the high reputation for superior quality my forest tree seeds are enjoying throughout the world.

My Firm has been doing the tree seed business these 61 years and I am now the first forest tree seed exporter in Europe. The seeds offered are extracted under my personal supervision in my Plants, the origin of them being continually controlled by the Austrian State, so that I feel I can supply you quality seeds at reasonable prices.

To obtain seeds of most reliable quality, I have the cones collected only from selected trees, the seeds of which produce the best type of healthy and clear stock available for planting. This virile seed from the cones of dominant and healthy trees is carefully selected and scrupulously sundered according to origin to fit the region for which it is destined.

The long experience I have had in exporting seeds to oversea, has given me a thorough knowledge of the seeds required in your country and I am therefore confident I can supply you choice material.

Send your orders as early as possible and I shall promptly advise my acceptance of the whole order or the part I have booked, this acceptance being subject in all cases to the yield of crop and pro-rata delivery.

I am soliciting your patronage and your co-operation by advising me of the results obtained.

Should application be received, I am prepared to supply particulars of all kinds of

E x o t i c S e e d s

and arrange for their collection from most reliable sources. Orders of this kind are especially requested to be sent in, if possible, on receipt of this catalogue. They will be conscientiously handled in the order they reach me.

My first consideration is quality and I spare no expense in securing the best material obtainable.

The prices I offer are as low as first class seeds can be sold for.

I honestly wish to satisfy you and I await your kind orders.

A. Grünwald.

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IMPORTANT NOTICE:

Allow me to draw your attention to the fact that the Government of the United States prescribes a special permit for importing seeds and therefore, in case of order, inform me of the number of your permit to prevent delays and annoyances. For small quantities I recommend mailing in post-parcels, in which case there should be a separate permit number.

Evergreen Seeds,

obtained in my Extraction-Plants, fitted with up-to-date machinery.

The origin of the seeds is warranted by the continual control of the Austrian State.

(All my seeds are accompanied by inspection-certificates of the Seed Experimental Station of the Austrian State.)

	germina- tive power	purity	100 lbs.	Prices for: 10 lbs. U. S. \$ per lb.	1 lb.
ABIES pectinata , European Silver Fir	50% cut	90%	— .40	— .45	— .50
Origin: hill districts 600 — 1600 ft. above the sea, mountains of medium height 1600—3300 ft. above the sea.			1000 lbs. and more	— .33	
Most suitable for the planting of mountainous regions of 600—4500 ft. in light and deep soil of all kinds, enduring calcareous soil too. Height 140 ft.					
JUNIPERUS communis , Common jun.)*			— .08	— .15	— .20
Origin: hill districts 600—1600 ft. mountains of medium height 1600—3300 ft.			1000 lbs. and more	— .05	
Excellent cover for game in sandy, stony and above all calcareous soils.					
LARIX europaea , European Larch	50%	85%	— .65	— .70	— .80
Origin: Northern Italy (Trentino) high mountains, mountains of medium height			1000 lbs. and more	— .58	
Silesia, Sudetic mountains, especially capable of offering resistance to the pressure of snow and storm, mountains of medium height.	50%	85%	1.50	1.65	1.80
Contents itself with all kinds of soils, calcareous, schistous or sandy, if they are conveniently fresh, deep and permeable. It may be planted in plains or in mountains up to 6000 ft.					
PICEA excelsa , Norway Spruce	90%	96%	— .32	— .38	— .45
Origin: Austrian hill districts 600—1600 ft.			1000 lbs. and more	— .26	
Austrian mountains of medium height . 1600—3300 ft.					
Czechoslovakia, hill districts 600 - 1600 ft.					
Carpathians and Tyrol 1600—4000 ft.					
Germany (Black Forest, Hartz Mountains) . 1600—3300 ft.					
Prefers fresh, deep and permeable soils, resisting the calcareous one very well too. Is fit for the afforestation of regions up to 6000 ft.					

*) If ten tons or more are required, ask special offer cif American harbour.

Use Grünwald's Tester!

	germina- tive power	purity	100 lbs.	Price for:	
				10 lbs. U. S. \$ per lb.	1 lb.
PINUS austriaca , <i>Pinus laricio</i> var. austriaca, Austrian Pine	85%	97%	— .40	— .45	— .50
Origin: Austria, low districts 600 - 1600 ft. above the sea medium height 1600—3300 ft. above the sea Dalmatia, coastal ranges of the Adriatic lowlands.				1000 lbs. and more	— .35
This species is prominently fit for the planting of calcareous soil, but it thrives just as well in deep and fresh sands. It does not like very wet and compact ground. Best all-round species for exposed situations, unexcelled for sea-shore planting. Height 80 ft. Especially fit for obtaining resin.					
PINUS cembra , Swiss Stone Pine			— .20	— .25	— .30
Origin: Alps, high mountains above 3300 ft.					
Suitable for the planting of high regions between 4500—7500 ft. It likes fresh, light and deep soils. Its graceful foliage renders it useful for ornamental purposes. Height 70 ft.					
PINUS laricio var. corsica , Corsican Pine	75%	97%	1.80	2.—	2.20
A very fine forest tree, well thriving in the same soils as <i>Pinus austriaca</i> . The young plants are seldom attacked by rabbits.				1000 lbs. and more	1.60
PINUS halepensis , Aleppo pine .	80%	97%	— .40	— .45	— .50
Origin: Coastal ranges of the Adriatic, Italy.				1000 lbs. and more	— .35
Valuable forest tree for the afforestation of calcareous regions in temperate warm zones. Height 40—60 ft.					
PINUS maritima vel pinaster, Cluster Pine *)	70%	97%	— .14	— .18	— .20
Origin: Italy, France, Atlantic coast.				1000 lbs. and more	— .10
Big forest tree especially preferring silicious soil and soon perishing in calcareous one. Very recommendable for the plantation of downs along the sea-coast. Height 100 ft.					
PINUS montana mughus , Manybranched Mugho Pine	80%	95%	1.65	1.85	2.10
Origin: Alps and Riesengebirge (Giant Mountains)				1000 lbs. and more	1.50
Bushy arbuscle, suitable for the laying out of picturesque gardens and for afforestation in great altitudes.					

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Tested seed pays!

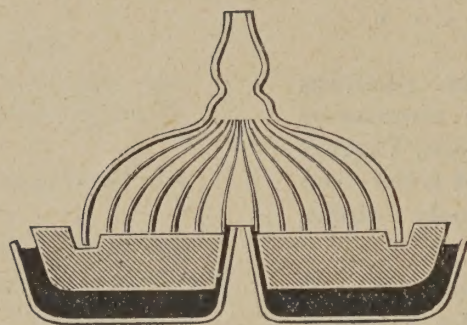
	germina- tive power	purity	100 lbs.	Prices for : 10 lbs. U. S. \$ per lb.	1 lb.
PINUS montana uncinata, Swiss Mountain Pine Origin: Denmark Especially valuable for the planting of downs as well as of high mountains between 5000 and 8000 ft. height. Thrives well in all kinds of soils and lives even on soils which are constantly moist. Height 70 ft.	80%	95%	1.70	1.90	2.10
				1000 lbs. and more	1.50
PINUS pinea, Italian Stone Pine *) Origin: Coastal ranges of the Adriatic, Italy. Likes silicious-granitic and argillaceous- gravelly soils. Warm climate is indis- pensable for this seed. Height 100 ft.	80%	97%	— .16	— .20	— .25
PINUS Strobus, Weymouth's Pine Origin: hill districts 600—1600 ft. This beautiful tree is not only of great ornamental value, it is besides that recommendable as a forest-tree, well fit for the plantation of moist valleys, peats, and in general for fresh and silicious regions. It does not thrive in calcareous soil. Height 100 ft.	75%	92%	1.45	1.60	1.80
				1000 lbs. and more	1.30
PINUS sylvestris, Scotch Pine . Origin: Austria, hill districts, beneath 1600 ft. Czechoslovakia, hill districts beneath 1600 ft. Carpathians-Tyrol, mountains of medium height 1600-3300ft. Germany and Poland, hill districts beneath . 1600 ft.	90%	95%	— .70	— .80	— .90
				1000 lbs. and more	— .65
	90%	95%	1.10	1.25	1.40
				1000 lbs. and more	1.—
var, rigensis	85%	94%	1.60	1.80	2.—
Origin: Finland Scotland Thrives in silicious, argillo-silicious, gravelly or calcareous soils, provided they be sufficiently deep. Very valuable for the re-afforestation of very bad soil. Successfully used for the planting of peaty ranges. Height 100—140 ft.					
! Communicate please from which ranges you wish to get! your seeds!					

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Test your seeds!



Grünwald's Apparatus

for testing and estimating the value of all forest- and agricultural seeds, kinds of corn, etc., at \$ 2.20 each.

Glass plate	\$ 1.—
Bell	„ —.90
Spare germinating plate (terra-cotta plate)	„ —.30

This apparatus consists of an earthenware-plate, on which there is a germination-sheet of porous clay, the top-side of which shows one hundred trough-shaped hollows, the so-called germination-cells, for receiving the single seeds. A glass-bell serves to cover this sheet.

In the middle of the plate there is a tubular opening allowing the fresh air to reach the seeds tested. The air used escapes through a corresponding opening in the bell.

Before using the apparatus, put the germination-sheet for half an hour in water to get the pores well soaked. Then place into each cell one grain of the seed to be tested. The sheet is covered with the bell and is kept moist by pouring some water into the glass-plate in intervals from one to two days, according to the temperature of the place where the apparatus is kept standing.

After use it is good to clean the germination-sheet with a brush in hot water.

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Coniferous Tree Seeds (Evergreens)

		Price for :		
		100 lbs.	10 lbs.	1 lb.
		U. S. \$ per lb.		
ABIES	amabilis, amabilis fir	price on demand		
"	balsamea, balsam fir	price on demand		
"	brachyphylla (homolepis), Nikko fir	2.—	2.25	2.50
"	canadensis see Tsuga			
"	cephalonica, Greek fir	1.10	1.25	1.40
"	cilicica	1.50	1.65	1.80
"	concolor, white fir	price on demand		
"	firma, Japanese silver fir	1.60	1.80	2.—
"	Fraseri, Fraser fir	price on demand		
"	grandis vel Gordoniana, great silver-fir	price on demand		
"	Holophylla, Needle fir	3.50	3.80	4.10
"	Koreana	3.50	3.80	4.10
"	lasiocarpa (concolor glauca), Alpine fir	price on demand		
"	magnifica, red fir	price on demand		
"	Mariesii	2.80	3.10	3.40
"	nigra	1.50	1.65	1.80
"	nobilis, noble fir	price on demand		
"	NORDMANNIANA, Nordmann fir	1.10	1.25	1.40
"	numidica	1.80	2.—	2.20
"	PECTINATA, European silver-fir	see page 3		
"	Pinsapo, Spanish silver-fir	1.—	1.10	1.20
"	pinsapo glauca	1.50	1.65	1.80
"	sachalinensis	4.50	5.—	5.50
"	sibirica	4.—	4.40	5.—
"	veitchii	3.—	3.30	3.60
ARAUCARIA	brasiliانا, 1000 seeds 11.—, 100 seeds	1.30		
"	excelsa, 1000 " 8.—, 100 "	1.—		
"	imbricata, 1000 " 9.—, 100 "	1.10		
BIOTA ,	see also THUJA			
"	compacta, compact O. AV.	— .80	— .90	1.—
"	nana	— .80	— .90	1.—
"	orientalis, arborvitae	— .40	— .45	— .50
"	" var. aurea	1.—	1.10	1.20
"	" semperaurea	1.—	1.10	1.20
"	pyramidalis, pyramidal O. AV.	1.—	1.10	1.20
"	tatarica	1.30	1.40	1 50
CEDRUS	atlantica, Atlas cedar	1 60	1.80	2.—
"	" argentea	1.75	2.—	2.20
Very fine tree that grows faster than the Cedrus Libani, will have a sound, light and deep soil. Prefers the dry and calcareous regions of the South to the temperate zone. Height 100 ft.				
CEDRUS	atlantica glauca	2.70	3.—	3.30
"	Deodara, Deodar	2.—	2.20	2.40
Magnificent ornamental tree that thrives well in argillaceous, argillo-silicious or calcareous, but permeable soils. Height 140 ft.				
		the crop is very short		
CEDRUS	Libani, Cedar of Lebanon	1.60	1.80	2.—
Very fine decorative tree. Prefers mostly deep and fresh soil. Height 140 ft.				
CEPHALOTAXUS	drupacea, Jap. plum-yew	— .80	— .90	1.—
"	Fortunei	— .80	— .90	1.—
"	Koraiana	1.60	1.80	2.—
"	mascula (pedunculata)	— .80	— .90	1.—

Tested seed pays!

		Price for:		
		100 lbs.	10 lbs.	1 lb.
		U. S. \$ per lb.		
CHAMAECYPARIS	Lawsoniana, Port Orford cedar .	1.—	1.10	1.20
"	" aurea		2.40	2.70
"	" " variegata		3.—	3.30
"	" pyramidalis	1.80	2.—	2.20
CHAMAECYPARIS	Lawsoniana, var. pendula glauca . . .	1.80	2.—	2.20
"	nutkaensis (Thujopsis borealis), yellow cedar	3.—	3.50	4.—
"	(Retinospora) obtusa, Hinoki cypress .	2.—	2.20	2.40
"	(Retinospora) pisifera, Sawara Retinospora	2.—	2.20	2.40
"	(Retinospora) pisifera var. filifera . .	3.—	3.30	3.60
"	(Retinospora) pisifera var. plumosa . .			6.—
"	(Retinospora) pisifera var. squarrosa .			6.—
CRYPTOMERIA	japonica, common cryptomeria	1.10	1.20	1.30
"	japonica, var. elegans	2.20	2.40	2.60
"	japonica, var. Lobbii	2.20	2.40	2.60
CUNNINGHAMIA	sinensis		6.—	6.60
"	" glauca		8.—	9.—
CUPRESSUS	australis, Australian cypress	1.80	2.—	2.20
"	Benthami, Bentham cypress	1.70	1.90	2.10
"	" var. arizonica, Ariz. cypress	2.70	3.—	3.30
"	funebis, weeping cypress	1.20	1.30	1.45
"	glauca pendula	1.50	1.65	1.80
"	Goweniana, Gowen cypress	1.60	1.80	2.—
"	HORIZONTALIS , spreading cypress . .	— .30	— .35	— .40
"	Knightiana vel elegans	1.80	2.—	2.20
"	Lindleyi, Lindley cypress	2.—	2.20	2.40
"	lusitanica vel glauca	1.20	1.30	1.40
"	Mac-Nabiana, Macnab cypress	2.50	2.75	3.—
"	macrocarpa vel Lambertiana, Monterey cypress	1.10	1.20	1.35
Very fast growing tree which resists perfectly well to calcareous soil. Excellent for breaking the storm.				
CUPRESSUS	sempervirens pyramidalis, pyramidal Italian cypress	— .30	— .35	— .40
Much used for cemeteries, avenues and as a windbreaker. Height 70 ft.				
CUPRESSUS	sinensis	2.—	2.20	2.40
"	torulosa	1.30	1.45	1.60
"	" var. Corneyana	2.70	3.—	3.30
"	" " majestica	2.—	2.20	2.40
CUPRESSUS	Triomphe de Boskoop	4.—	4.50	5.—
GINGKO	biloba, maidenhair-tree	— .25	— .30	— .35
JUNIPERUS	bermudiana	price on demand		
"	chinensis (Fine ornamental juniper) . . .	1.—	1.10	1.20
"	COMMUNIS , common juniper*)	see page 3		
"	" var. pyramidalis	— .50	— .55	— .60
"	drupacea	— .90	1.—	1.10
"	excelsa, high savin	— .70	— .80	— .90
"	japonica	— .80	— .90	1.—
"	litoralis (Creeping juniper)	1.50	1.70	1.90
"	macrocarpa	— .60	— .70	— .80
"	nana (montana)	— .60	— .70	— .80
"	oxycedrus	— .22	— .27	— .35
1000 lbs. and more — .15				
"	" rigida (best for garden)	2.—	2.20	2.40

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		Price for:		
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		U. S. \$ per lb.		
JUNIPERUS	Sabina, savin	— .90	1.—	1.10
"	VIRGINIANA, red cedar	— .42	— .50	— .55
Very ornamental, particularly well growing in fertile, deep and fresh soils. Fears moisture. Fit for the plantation of avenues. Height 70 ft.		1000 lbs and more	— .35	
JUNIPERUS	VIRGINIANA, var. argentea	— .80	— .90	1.—
LARIX	AMERICANA	price on demand		
"	dahurica (Korean or Dahurican larch)	3.50	3.80	4.10
"	EUROPAEA, European larch	see page 3		
"	LEPTOLEPIS, Japanese larch	4.40	4.80	5.30
It is collected in the mountain ranges of Japan up to 8500 ft. height. Very fast growing tree, superior to all other coniferous trees for all forestry planting. Thrives exceedingly well in sandy and deep soils. Height 100 ft.		1000 lbs and more	4.—	
LARIX	occidentalis (Western larch)	price on demand		
"	sibirica (Siberian larch)	3.—	3.30	3.60
LIBOCEDRUS	decurrens, incense cedar	— .90	1.—	1.10
PICEA	ajanensis, Ajan spruce		8.—	9.—
"	ALBA (canadensis), white spruce	1.50	1.70	1.90
Fine ornamental tree of vigorous growth which likes silicious and fresh soils. Height 50 ft.				
PICEA	Alcockiana (Sir Alcock's spruce)		5.—	5.50
"	Engelmanni, Engelmann spruce	price on demand		
"	EXCELSA, Norway spruce	see page 3		
"	Glehni (Saghalin spruce)		6.—	6.60
"	Hodoensis (Hondo spruce)	5.—	5.50	6.—
"	Koraiensis (Korean Tiger Tail spruce)	4.—	4.40	4.80
"	Koyamai	7.—	7.70	8.40
"	Morinda vel Smithiana	4.—	4.40	4.80
"	nigra, black spruce	price on demand		
"	obovata (Korean spruce, best for forest, ornamental spruce)		6.—	7.—
PICEA	OMORICA, Serbian spruce	45.—	50.—	55.—
A rare, strong and most resistant species of great decorative effect. According to Professor PANČIČ the most beautiful of all Piceas. Accommodates itself to whatever kind of soil, thrives in altitudes up to 5000 feet on stony and rocky slopes and is very frost-hardy.				
PICEA	orientalis		9.—	10.—
"	polita	4.—	4.40	4.80
"	pungens (Parreyana) Colorado spruce	price on demand		
Ornamental tree of great beauty, rendering good services in afforestation. Fresh, permeable and deep soil.				
PICEA	pungens argentea	price on demand		
"	" glauca, Colo blue spruce	price on demand		
"	" Koster	price on demand		
"	rubra, red spruce	price on demand		
"	sitchensis vel Menziesii, Sitka spruce	4.—	4.50	5.—
Must have fresh and rich soil, not fit for dry one; it is rather remarkable for its growth and forms a magnificent green pyramid. Suitable for very moist places, in which other conifers cannot thrive. Not fit for calcareous soil. Height 140 ft.				
PINUS	albicaulis, Whitebark Pine			15.—
"	attenuata see Pinus tuberculata			
"	australis see Pinus palustris			
"	ayacuahuite		7.—	7.70

Use Grünwald's Tester!

		Price for:		
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PINUS BANKSIANA, Jack pine	1000 lbs. 1.60	1.80	2.—	2.20
„ brevispica, Formosa Alpine Black Pine			5.—	5.50
„ Bungiana, lacebark pine		2.20	2.40	2.60
„ Canariensis, canary pine	1000 lbs. 1.—	1.10	1.20	1.30
„ CEMBRA, Swiss stone pine		see page 4		
„ contorta, shore pine		price on demand		
„ Coulteri, Coulter pine		6.—	6.60	7.20
„ densiflora, Japanese red pine		1.50	1.65	1.80
„ echinata see Pinus mitis		price on demand		
„ edulis, pinyon nut pine		1.35	1.50	1.70
„ excelsa (strobis excelsa)		4.—	4.50	5.—
„ flexilis, Limber pine		2.50	2.75	3.—
„ funebris, Chinese Black pine		see page 4		
PINUS HALEPENSIS, Aleppo pine		price on demand		
„ inops, scrub pine		1.40	1.60	1.80
„ INSIGNIS vel radiata, Monterey pine		1000 lbs. and more	1.25	
Large fine tree of rapid growth, produces useful softwood. Likes coastal regions and is often successful in moist mountains. Not drought-hardy and does not thrive in sour soils Height about 90 feet.				
PINUS Jeffreyi, Jeffrey pine		price on demand		
„ koraiensis, Korean pine		1.40	1.50	1.60
„ Lambertiana, sugar pine		2.50	2.75	3.—
„ LARICIO var. corsica		see page 4		
„ „ VAR. AUSTRIACA, Austrian pine		see page 4		
„ „ var. calabrica, Calabrian pine		2.20	2.40	2.60
„ „ var. cebennensis vel Saltzmanni				4.—
„ „ var. taurica				6.—
„ leophylla			5.—	5.50
„ LEUCODERMIS		2.40	2.70	3.—
Highly decorative tree, especially on account of the formation of its scales. Exceedingly unpretending with regard to climate and nature of soil. Wood of the same value as that of the other species of Pinus.				
„ longifolia		4.50	5.—	5.50
„ Luchuensis, Ryukyu pine, fine ornamental tree			6.50	7.20
„ lutea see pinus Taeda		see page 4		
„ MARITIMA vel pinaster, cluster pine*)		— .17	— .20	— .25
„ „ var.		4.—	4.40	4.80
„ massoniana, Formosa Red pine		price on demand		
„ mitis, shortleaf pine			5.—	5.50
„ monophylla, single-leaf pinyon			4.—	4.40
„ mongolica		see page 5		
„ MONTANA vel uncinata, Swiss mountain pine		see page 4		
„ MONTANA var. Mughus, manybranched mugho pine			5.50	6.—
„ Montezumae		price on demand		
„ monticola, silver pine		price on demand		
„ muricata, bishop pine		price on demand		
„ murrayana, Lodgepole Pine		price on demand		
„ palustris vel australis, long-leaf pine		price on demand		
„ paroliniana (Pinus pyrenaica)		3.30	3.60	4.—
„ Parryana, Parry pinyon			4.50	5.—
„ parviflora		3.20	3.50	3.90
„ patula				6.—
„ pentaphylla		3.20	3.50	3.90
„ PEUCE		2.50	2.75	3.—

Exceedingly nice for ornamental purposes. Is not attacked by blight (Blasenrost), therefore most recommendable for

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localities which for this reason are not fit for Pinus				
Strobus. Perfect and good substitute for this latter.				
PINUS PINEA, Italian stone pine*)	see page 5			
" pinea fragilis	1.50	1.65	1.80	
" podocarpus macrophylla	1.50	1.65	1.80	
" ponderosa, western yellow pine	2.20	2.40	2.60	
" pumila	4.—	4.40	4.80	
" rigida, pitch pine	6.—	6.60	7.20	
" rubra vel resinosa, red pine		18.—	20.—	
" Sabiniana, digger pine	1.50	1.65	1.80	
" serotina		9.—	10.—	
" STROBUS, white pine	see page 5			
" strobus Thunbergii	8.—		9.—	
" SYLVESTRIS, Scotch pine	see page 5			
" " var. rigensis	see page 5			
" taeda, Loblolly pine	price on demand			
" Taiwanensis	3.—	3.30	3.60	
" tanyosho, Japanese Table pine			22.—	
" teocote			7.—	
" Thunbergii, Japanese red pine	1.40	1.55	1.70	
" Torreyana, Torrey pine			10.—	
" tuberculata, knobcone pine		11.—	12.—	
" virginiana see pinus inops				
Podocarpus chinensis	1.80	2.—	2.20	
" Nageia	2.70	3.—	3.30	
PSEUDOLARIX Kaempferi	2.50	2.75	3.—	
PSEUDOTSUGA Douglasii Viridis, Douglasspruce, green	price on demand			
PSEUDOTSUGA Douglasii glauca, Douglas spruce, blue	price on demand			
RETINOSPORA see CHAMAECYPARIS				
SALISBURIA see GINGKO				
SCIADOPITYS verticillata, umbrella pine	3.—	3.30	3.60	
SEQUOIA (Wellingtonia) gigantea, big tree, Giant Sequoia	10.—	11.—	12.—	
SEQUOIA sempervirens, redwood	1.20	1.35	1.50	
TAXODIUM distichum, bald cypress	— .40	— .45	— .50	
TAXUS BACCATA, English yew	1.10	1.20	1.30	
" " var. adpressa	2 —	2.20	2.40	
" " var. pyramidalis	2.—	2.20	2.40	
" brevifolia	3.50	3.90	4.30	
" cuspidata, Japanese yew	2 50	2.75	3.—	
" fastigiata var. hibernica	2.—	2.20	2.40	
THUJA see also BIOTA				
" elegantissima	1.50	1.65	1.80	
" gigantea vel Lobbii	3.50	4.—	4.50	
" japonica (Thuja Standishi)	4.50	4.90	5.40	
" occidentalis, American arborvitae	2.40	2.60	2.80	
" " var. pyramidalis	3.—	3.30	3.60	
" " var. Warreana	3.—	3.50	4.—	
" orientalis, Oriental A. V. see also Biota				
THUJOPSIS dolobrata	4.50	5.—	5.50	
" " nana	6.50	7.20	7.90	
" " var.			20.—	
" Standishi	5.—	5.50	6.—	
TORREYA Nucifera (Japanese Nutmeg Cedar)	1.20	1.30	1.40	
TSUGA canadensis, Canada hemlock	price on demand			
" diversifolia, small-leaved Hemlock	5.—	5.50	6.—	
" Mertensiana, black hemlock		10.—	11.—	
" Sieboldii, Siebold hemlock	4.80	5.30	5.80	
WELLINGTONIA see SEQUOIA				

*) If ten tons or more are required, ask special offer cif American harbour.

Test your seeds!

Broad-Leaved Tree Seeds.

		100 lbs.	Price for: 10 lbs. U. S. \$ per lb.	1 lb.
ABELIA	japonica	4.10	4.50	5.—
ACACIA	see also MIMOSA and ROBINIA			
"	armata			9.—
"	adenophora			9.—
"	buxifolia			9.—
"	dealbata	1.80	2.—	2.20
"	decurrens			6.—
"	elata			12.—
"	farnesiana	— .50	— .55	— .60
"	florabunda			7.—
"	longifolia	2.50	2.75	3.—
"	melanoxylon	1.50	1.65	1.80
"	oxycedrus			9.—
"	pendula			9.—
"	podalyriaefolia			11.—
"	prominens, Silver Wattle			6.—
"	pruinosa			10.—
ACER	argutum		3.—	3.30
"	CAMPESTRE, hedge maple	— .12	— .16	— .20
"	carpinifolium, Plover maple		3.—	3.30
"	dasycarpum	— .80	— .90	1.—
"	diabolicum (Acer purpurascens)		3.—	3.30
"	distylum, Circle-leaf maple		3.—	3.30
"	japonicum, Fullmoon-maple	2.—	2.20	2.40
"	laetum		2.—	2.20
"	macrophyllum, Oregon maple	1.20	1.35	1.50
"	monspessulanum	— .60	— .70	— .80
"	NEGUNDO, boxelder	— .20	— .25	— .30
"	NEGUNDO, var. foliis variegatis	— .50	— .55	— .60
"	parviflorum		3.—	3.30
"	pennsylvanicum vel striatum, striped maple			4.—
"	PLATANOIDES	— .15	— .20	— .25
"	platanoides Schwedleri (Acer plat. var. atropurpur.)	2.—	2.20	2.40
"	polymorphum vel palmatum, Japanese maple	3.20	3.50	3.80
"	" var. atropurpureum, bloodleaf			
"	" maple		10.—	11.—
"	PSEUDOPLATANUS, Sycamore maple	— .15	— .20	— .25
"	" var. foliis atropurpureis,			
"	purple sycamore maple	— .50	— .55	— .60
"	rubrum, red maple	2.—	2.20	2.40
"	saccharinum see Acer dasycarpum			
"	saccharum, sugar maple	1.50	1.65	1.80
"	tataricum	1.50	1.65	1.80
"	" var. Ginnala, Amur maple	3.50	3.90	4.30
ACTAEA	spicata			3.—
ACTINIDIA	arguta, ornamental climber		11.—	12.—
AESCLUS	hippocastanum, horse chestnut*)	— .03	— .05	— .06
"	rubicunda, red horse chestnut	— .15	— .20	— .25
AILANTHUS	GLANDULOSA	— .15	— .20	— .25
AKEBIA	Lobata, heavy three-leaved Akebia	2.—	2.20	2.40
"	Quinata	2.—	2.20	2.40
ALBIZZIA	lophantha			6.—
ALNUS	GLUTINOSA, European alder	— .30	— .35	— .40
"	INCANA, speckled alder	— .60	— .70	— .80
"	japonica, Japanese alder	1.60	1.80	2.—

*) If ten tons or more are required, ask special offer cif American harbour.

Use Grünwald's Tester!

	Price for:		
	100 lbs.	10 lbs. U. S. \$ per lb.	1 lb.
ALNUS viridis	— .60	— .70	— .80
AMELANCHIER asiatica	2.—	2.20	2.40
" vulgaris, service tree	1.20	1.35	1.50
AMYGDALUS see FRUIT seeds			
AMORPHA fragrans nana	— .50	— .55	— .60
" fruticosa, Indigo bush	— .25	— .30	— .35
" " var. glabra	— .50	— .55	— .60
AMPELOPSIS megalophylla	2.50	2.75	3.—
" quinquefolia, Va. creeper	— .40	— .45	— .50
" Veitchii, B. ivy	— .90	1.—	1.10
ARALIA cordata	2.50	2.75	3.—
" japonica	2.20	2.50	2.80
" Sieboldii, Angelica-tree	2.70	3.—	3.30
" spinosa, Angelica tree or Hercules Club	2.—	2.20	2.40
ARBUTUS unedo, Madrone	1.30	1.45	1.60
ARDISIA japonica, especially ornamental planted in groups	3.20	3.50	3.90
ARISTOLOCHIA sipho, Dutchman's pipe	4.—	4.40	4.80
ARMENIACA see FRUIT seeds			
ARONIA arbutifolia, Red Chokeberry		2.—	2.20
ASPARAGUS albus	— .70	— .80	— .90
" acutifolius	1.—	1.10	1.20
AUCUBA japonica, seed dried in skin	— .50	— .55	— .60
" " var., Jap. aucuba	1.—	1.10	1.20
AZALEA see also Rhododendron			
" hybrida, mixtae var.			14.—
" indica, mixtae var.			50.—
" Kaempferi, hardy Azalea			45.—
" kurume			170.—
" mollis mixtae var., Chinese azalea			15.—
BENTHAMIA fragifera	— .60	— .70	— .80
BERBERIS NEPALENSIS			25.—
Very handsome species with leaves resembling English holly. Leafstem 10—15 inches long. In winter the leaves turn green, scarlet and orange. In early spring beautiful yellow flowers.			
BERBERIS Sieboldi, Sieboldian needle-leaved Barberry . .	3.—	3.30	3.60
BERBERIS THUNBERGII Japanese barberry	3.—	3.30	3.60
Most valuable species for hedge and ornamental planting. In autumn the leaves turn scarlet, in winter magnificent red fruits,			
BERBERIS vulgaris	— .20	— .25	— .30
" " var. foliis atropurpureis, purple barberry	1.—	1.10	1.20
BETULA ALBA , European white birch (verrucosa) . .	— .15	— .20	— .25
" " var. pendula, weeping birch	— .40	— .45	— .50
" lenta, sweet birch		3.—	3.30
" lutea, yellow birch		3.—	3.30
" nigra vel rubra, river birch		3.—	3.30
" papyrifera, canoe birch		3.60	4.—
" populifolia, Gray birch		2.70	3.—
" popsiacea	1.20	1.30	1.45
" pubescens	1.20	1.30	1.45
BROUSSONETIA papyrifera, paper mulberry	2.—	2.20	2.40
BUDDLEIA japonica, hardy Japanese Buddleia			14.—
" Lindleyana	1.—	1.10	1.20
" variabilis	1.50	1.65	1.80
BUXUS Koraiensis, Hardy Korean Boxwood	5.—	5.50	6.—
" sempervirens, box-tree	— .90	1.—	1.10
CALYCANTHUS floridus, common sweetshrub	4.—	4.50	5.—

Tested seed pays!

		Price for:		
		100 lbs.	10 lbs.	1 lb.
		U. S. \$ per lb.		
CALYCANTHUS	occidentalis, western sweetshrub	4.—	4.50	5.—
"	praecox	1.60	1.80	2.—
"	var. grandiflorus	2.—	2.20	2.40
CAMELLIA (Thea)	japonica, Japanese flowering Camellia	1.10	1.20	1.35
CAPPARIS	spinosa	3.—	3.30	3.60
"	var. inermis	3.30	3.60	3.90
CARAGANA	arborescens, Siberian pea-tree	1.20	1.30	1.45
CARPINUS	americana, American hornbeam	2.—	2.20	2.40
"	betulus, European hornbeam	—14	—18	—25
		1000 lbs. and more		
"	ostrea	—70	—80	—90
CARYA (Juglans)	alba, shagbark (Hickory)	—25	—30	—35
"	amara, bitternut	—25	—30	—35
"	porcina, bignut	—25	—30	—35
"	sulcata, shellbark	—25	—30	—35
"	tomentosa, mockernut	—25	—30	—35
CASTANEA	vesca, chestnut	—15	—20	—25
"	var. macrocarpa	—20	—25	—30
CASUARINA	Cunninghamia	2.50	2.75	3.—
"	glauca			7.—
"	torulosa			11.—
CATALPA	bignonioides (Bignonia catalpa)	—40	—45	—50
"	grandiflora	4.—	4.40	4.80
"	Kaempferi	—70	—80	—90
"	radicans (Tecoma)	4.—	4.40	4.80
"	speciosa vel cordifolia, true wild catalpa	1.80	2.—	2.20
CEANOTHUS	americanus	3.—	3.30	3.60
"	azureus, blue myrtle	3.—	3.30	3.60
"	var.		4.—	4.40
"	hybridum	3.—	3.30	3.60
"	mixtae var.	4.—	4.40	4.80
CEDRELA	SINENSIS			3.—
CELASTRUS	scandens, Amer bittersweet	2.—	2.20	2.40
CELTIS	australis	—35	—40	—45
"	occidentalis vel cordata, hackberry	—50	—55	—60
"	orientalis vel Tournefortii	—50	—55	—60
"	sinensis	1.80	2.—	2.20
CERASUS	see fruit-seeds			
CERCIDIPHYLLUM	japonicum		6.30	7.—
CERCIS	album	2.—	2.20	2.40
"	canadensis	2.—	2.20	2.40
"	chinensis (Cercis japonica), Chinese red bud	5.—	5.50	6.—
"	siliquastrum, Judas-tree	—40	—45	—50
"	var.	1.—	1.10	1.20
CHAMEROPS	arborescens 1.000 seeds 2.—			
"	argentea 1.000 seeds 2.—			
"	elegans, 10.000 seeds 24.—, 1.000 seeds 2.80			
"	excelsa	—20	—25	—30
CHIONANTHUS	virginica, white fringe		4.50	5.—
CITRUS	aurantium	1.—	1.10	1.20
"	deliciosa	1.20	1.30	1.40
"	limonum	—80	—90	1.—
"	trifoliata	1.20	1.30	1.40
"	triptera	1.—	1.10	1.20
CLEMATIS	flammula	—90	1.—	1.10
"	hybrida, mixtae var.			8.—
"	" flore pleno, mixtae var.			25.—
"	montana grandiflora			7.—
"	" rubens			12.—
"	orientalis			9.—

Test your seeds!

	Price for:		
	100 lbs.	10 lbs.	1 lb.
	U. S. \$ per lb.		
CLEMATIS paniculata, sweet autumn clematis			3.—
" vitalba	.—20	.—25	.—30
" viticella	.—60	.—70	.—80
CLETHRA alnifolia		3.—	3.30
" Barbinervis		2.80	3.10
COCOS australis, 10,000 seeds 40.—, 1,000 seeds 4.80 — .	.—30	.—35	.—40
COLUTEA arborescens		3.—	3.30
" purpurea	1.80	2.—	2.20
CORIARIA myrtifolia	1.20	1.30	1.40
CORNUS alba vel sibirica	1.—	1.10	1.20
" florida, flowering dogwood	.—30	.—35	.—40
" mascula, Cornelian cherry	.—15	.—20	.—25
" sanguinea, bloodtwig dogwood		2.50	2.75
CORONILLA emerus	.—20	.—25	.—30
CORYLUS avellana, filbert 1,000 lbs. —.15	1.—	1.10	1.20
" " var. foliis atropurpureis	.—30	.—35	.—40
" columnna 1,000 lbs. —.25	1.20	1.30	1.40
COTONEASTER angustifolia	1.50	1.65	1.80
" buxifolia	2.—	2.20	2.40
" frigida	1.20	1.30	1.40
" horizontalis	1.20	1.30	1.40
" microphylla	1.20	1.30	1.40
" pannosa	1.80	2.—	2.20
" Simonsii (Acuminata)	.—50	.—60	.—70
GRATAEGUS azarulus	.—70	.—80	.—90
" coccinea, thicket hawthorn	.—30	.—35	.—40
" Crus Galli, cockspur hawthorn	.—50	.—60	.—70
" glabra	.—08	.—12	.—15
" oxyacantha, fruits, English hawthorn	1000 lbs. and more		.—05
" " " clean seeds	.27	.—30	.—35
" " " " " " " " " " " " " " " " "	1000 lbs. and more		.24
" " " " " " " " " " " " " " " " "	.—08	.—12	.—15
" " " " " " " " " " " " " " " " "	100 lbs. and more		.—05
" " " " " " " " " " " " " " " " "	.—27	.—30	.—35
" " " " " " " " " " " " " " " " "	1000 lbs. and more		.—24
" " " " " " " " " " " " " " " " "	.—26	.—30	.—35
" pyracantha 1,000 lbs. = .23	.—70	.—80	.—90
" " " " " " " " " " " " " " " " "			
CYDONIA see fruit-seeds			
CYTISUS albus	2.—	2.20	2.40
" alpinus	1.—	1.10	1.20
" glabrescens (emeriflorus)		4.50	5.—
" hirsutus		2.—	2.20
" laburnum 1,000 lbs. —.45	.—50	.—55	.—60
" nigricans		3.50	4.—
" purpureus			7.—
" sessilifolius		3.—	3.30
" Weldenii	.—80	.—90	1.—
DAPHNE laureola		4.—	4.50
" mezereum		2.70	3.—
DEUTZIA crenata	.—70	.—80	.—90
" gracilis	.—80	.—90	1.—
" scabra	2.—	2.20	2.40
DIMORPHANTHUS mandschuricus	2.—	2.20	2.40
DIOSPYROS lotus, date plum	.—50	.—60	.—70
" sinensis vel Kaki, Kaki persimmon	1.20	1.30	1.40
" virginiana, common persimmon	1.20	1.30	1.40
ELAEAGNUS angustifolia, Russian olive	.—70	.—80	.—90
" edulis vel longipes, cherry elaeagnus	1.30	1.45	1.60

Use Grünwald's Tester!

	Price for:		
	100 lbs.	10 lbs. U. S. \$ per lb.	1 lb.
ERICA arborea	1.—	1.10	1.20
„ vulgaris (<i>Calluna vulgaris</i>)	— .90	1.—	1.10
ERIOBOTRYA (<i>Mespilus</i>) japonica, Japanese Loquat	1.30	1.45	1.60
EUCALYPTUS	see page 20		
EVONYMUS europaeus, European burningbush	— .40	— .45	— .50
„ japonicus, evergreen burningbush	— .80	— .90	1.—
„ japonicus var. aureus	1.20	1.30	1.40
„ latifolius	1.20	1.30	1.40
FAGUS SYLVATICA, European beech, 1.000 lbs. —.10	— .12	— .15	— .20
„ „ var. purpurea, purple beech	— .90	1.—	1.10
FICUS carica		4.—	4.40
FONTANESIA phillyraeoides	— .90	1.—	1.10
FORSYTHIA viridissima			20.—
FRAXINUS AMERICANA vel alba, white ash,			
1.000 lbs. —.15	— .18	— .20	— .25
„ EXCELSIOR, European ash, 1.000 lbs. —.05	— .07	— .10	— .15
„ „ var. pendula	— .40	— .45	— .50
„ mandschurica	2.20	2.40	2.60
„ oregona, Oregon ash			2.—
„ ORNUS, flowering ash	— .15	— .18	— .20
„ pubescens, red ash . . . 1.000 lbs. —.15	— .18	— .20	— .25
„ viridis lanceolata, green ash	1.20	1.30	1.45
GENISTA see also SPARTIUM			
„ canariensis	6.—	6.60	7.20
„ germanica		3.—	3.30
„ monosperma	1.20	1.30	1.40
„ pilosa	3.—	3.30	3.60
„ radiata	3.—	3.30	3.60
„ tinctoria	— .80	— .90	1.—
GLEDITSCHIA caspica	— .60	— .70	— .80
„ horrida	— .60	— .70	— .80
„ japonica (Japanese Locust)	1.80	2.—	2.20
„ sinensis, Chinese honeylocust	— .80	— .90	1.—
„ TRIACANTHOS, honeylocust*)			
1.000 lbs. —.12	— .15	— .17	— .20
„ TRIACANTHOS var. inermis	— .30	— .35	— .40
GLYCINIA see Wistaria			
GYMNOCLADUS canadensis, coffee-tree	1.—	1.10	1.20
HALESIA hispida	3.50	3.90	4.30
„ tetraptera	2.20	2.40	2.60
HAMAMELIS japonica (Japanese Witch-hazel)		5.—	5.50
„ obtusa (Autumn flowering sort)		6.—	6.60
„ virginica, witch-hazel	2.70	3.—	3.30
HEDERA helix, English ivy	— .20	— .25	— .30
„ „ var. foliis hibernica	— .40	— .45	— .50
HIBISCUS syriacus, shrub-althea	— .25	— .30	— .35
„ „ var. flore pleno	— .50	— .55	— .60
HIPPOPHAE rhamnoides	— .50	— .55	— .60
ILEX aquifolium, English holly	— .60	— .70	— .80
„ „ var. foliis variegatis	— .90	1.—	1.10
„ Crenata (Japanese Holly)	2.—	2.20	2.50
„ Cunninghamsi	1.50	1.70	1.90
„ integra (tall growing Holly Tree)	2.—	2.20	2.50
„ opaca, holly	1.20	1.30	1.40
JACARANDA mimosaefolia, 10.000 seeds 10.—, 1.000 seeds	1.20		
JASMINUM fructicans	1.50	1.65	1.80
JUGLANS see also Carya			
„ cinerea, butternut	— .30	— .35	— .40

*) If ten tons or more are required, ask special offer cif American harbour.

Tested seed pays!

			Price for :		
			100 lbs.	10 lbs.	1 lb.
			U. S. \$ per lb.		
JUGLANS nigra, black walnut*)	1.000 lbs.	— .09	— .12	— .15	— .20
„ regia, Persian (English) walnut*)	1.000 lbs.	— .15	— .20	— .25	— .30
KOELREUTERIA paniculata, goldenrain-tree			— .25	— .30	— .35
LAGERSTROEMIA indica			3.—	3.30	3.60
LAURUS camphora			2.—	2.20	2.40
„ cerasus (Laurocerasus)			— .30	— .35	— .40
„ glandulosa			1.—	1.10	1.20
„ nobilis, Grecian laurel*)			— .15	— .20	— .25
LIGUSTRUM ibota (Ibota privet)			— .70	— .80	— .90
„ japonicum, tall Japanese privet			— .20	— .25	— .30
„ lucidum			— .30	— .35	— .40
„ ovalifolium			— .30	— .35	— .40
„ vulgare, European privet			— .12	— .15	— .18
LIRIODENDRON tulipifera, tulip-tree			— .40	— .45	— .50
LIVINGSTONIA australis (Corypha)	10.000 seeds	20.—	1000 seeds	2.40	
„ chinensis (Betel-nut)			1000 seeds	18.—	
LONICERA alpigena			1.—	1.10	1.20
„ caprifolium			1.50	1.65	1.80
„ etrusca			1.20	1.30	1.40
„ japonica			1.50	1.70	1.90
„ tatarica			1.20	1.30	1.40
„ xylosteum			— .45	— .50	— .55
MACLURA aurantiaca			1.10	1.20	1.30
MAGNOLIA acuminata, cncumber-tree			2.—	2.20	2.40
„ grandiflora, southern magnolia			1.—	1.10	1.20
„ hypoleuca, silver magnolia			1.80	2.—	2.20
„ parviflora			5.—	5.50	6.—
„ soulangeana			2.—	2.20	2.40
„ umbrella vel tripetala, umbrella magnolia			2.50	2.75	3.—
MAHONIA aquifolium, hollygrape			1.30	1.45	1.60
„ japonica vel Beali			1.50	1.65	1.80
MALUS see fruit-seeds					
MELIA azedarach, Chinaberry-tree			— .20	— .25	— .30
„ japonica			1.25	1.40	1.55
MESPILUS germanica			— .60	— .70	— .80
MIMOSA see also Acacia and Robinia					
„ (Acacia) Julibrissin			— .30	— .35	— .40
„ NEMU			2.50	2.75	3.—
MORUS see fruit seeds					
MYRTUS communis, myrtle			— .80	— .90	1.—
NANDINA domestica			2.—	2.20	2.40
„ „ white berries				4.—	4.40
OLEA europaea	1.000 lbs.	— .25	— .30	— .35	— .40
OSTRYA vulgaris (Carpinus ostrya), hop hornbeam			— .70	— .80	— .90
PALIURUS aculeatus			— .35	.40	— .45
PAULOWNIA imperialis			— .40	— .45	— .50
PHELLODENDRON amurense			1.40	1.55	1.70
PHILADELPHUS coronarius			2.50	2.75	3.—
„ grandiflorus			2.50	2.75	3.—
„ hirsutus			2.50	2.75	3.—
„ inodorus			5.—	5.50	6.—
PHOENIX canariensis	10.000 seeds	8.—	1000 seeds	1.—	
„ dactilifera			— .50	— .60	— .70
„ senegalensis	10.000 seeds	32.—	1000 seeds	3.80	
„ spinosa (Leonensis)	1.000 seeds		5.—		
„ sylvestris	1.000 seeds		5.—		
„ tenuis	1.000 seeds		2.50		
„ tomentosa	1.000 seeds		7.—		

*) If ten tons or more are required, ask special offer cif American harbour.

Test your seeds!

		Price for:		
		100 lbs.	10 lbs.	1 lb.
		U. S. \$ per lb.		
PIRUS	see fruit-seeds	2.50	2.75	3.—
PISTACIA	chinensis	—90	1.—	1.10
„	lentiscus	—70	—80	—90
„	terebinthus	2.70	3.—	3.30
„	vera	—18	—20	—25
PLATANUS	occidentalis, American planetree	—18	—20	—25
„	orientalis, European planetree	10.—	11.—	
POINCIANA	Gillesii	—40	—45	—50
POPULUS	alba, white poplar	—50	—60	—70
„	canadensis	—30	—35	—40
„	nigra, black poplar	—40	—45	—50
„	tremula			
PRUNUS	see fruit-seeds	—80	—90	1.—
„	padus, European bird cherry	1.—	1.10	1.20
„	serotina, black cherry	—15	—20	—25
„	spinosa, sloe-tree, blackthorn	1.—	1.10	1.20
„	virginiana	—60	—70	—80
PTELEA	trifoliata, hoptree	1.—	1.10	1.20
PTEROCARYA	caucasica	1.—	1.10	1.20
„	fraxinifolia	1.—	1.10	1.20
„	laewigata	1.50	1.70	1.90
„	rhoifolia	2.80	3.10	3.40
„	stenoptera vel jap.	—04	—06	—08
QUERCUS	cerris*) 1.000 lbs. —.03	—40	—45	—50
„	coccinea, scarlet oak	price on demand		
„	conferta	1.—	1.10	1.20
„	cuspidata	—10	—12	—15
„	ilex	—50	—55	—60
„	palustris, pin oak	—03	—05	—07
„	PEDUNCULATA, Engl. oak*), 1.000 lbs. —.02	—20	—25	—30
„	PUBESCENS	—25	—30	—35
„	pyramidalis			
„	ROBUR VAR. SESSILIFLORA*)	—04	—06	—08
„	1.000 lbs. —.03	—08	—10	—13
„	RUBRA, red oak*) 1.000 lbs. —.06	—25	—30	—35
„	Suber	—60	—70	—80
„	tinctoria	—40	—45	—50
RHAMNUS	alaternus	.80	—90	1.—
„	alpinus	—30	—35	—40
„	catharticus, common buckthorn	—40	—45	—50
„	frangula, glossy buckthorn	—50	—60	—70
„	utilis			
RHODODENDRON	see also Azalea			
„	arboreum, mixtae var.			10.—
„	ponticum, mixtae var.			9.—
RHODOTYPUS	kerrioides, jetbead	1.80	2.—	2.20
RHUS	coriaria	—60	—70	—80
„	cotinus, purple fringe, smoketree	1.50	1.65	1.80
„	glabra, smooth sumach	—60	—70	—80
„	toxicodendron, poisonwood			3.—
„	typhina, staghorn sumach	—40	—45	—50
RIBES	see fruit-seeds			
ROBINIA	see also Acacia and Mimosa			
„	monophylla	1.—	1.10	1.20
„	PSEUDO-ACACIA , black (yellow*)	—16	—18	—20
„	locust. 1.000 lbs. —.14	—70	—80	—90
ROBINIA	PSEUDO-ACACIA, black var. Bessoniana	—40	—45	—50
„	pseudoacacia var. inermis			

*) If ten tons or more are required, ask special offer cif American harbour.

		Price for:		
		100 lbs.	10 lbs.	1 lb.
		U. S. \$ per lb.		
ROBINA	pyramidalis	1.—	1.10	1.20
"	viscosa, clammy locust	1.—	1.10	1.20
ROSA	see fruit-seeds			
RUBUS	see fruit-seeds			
SALIX	alba, white willow	— .30	— .35	— .40
"	caprea	— .30	— .35	— .40
"	purpurea	— .30	— .35	— .40
"	viminalis	— .30	— .35	— .40
SAMBUCUS	canadensis, elder	2.—	2.20	2.40
"	nigra	— .20	— .25	— .30
"	racemosa	— .40	— .45	— .50
SOPHORA	japonica, Chinese scholar-tree	— .20	— .25	— .30
"	pendula	— .40	— .45	— .50
"	platycarpa	4.—	4.40	4.80
SORBUS	aria	— .30	— .35	— .40
"	aucuparia 1.000 lbs. — .08	— .10	— .12	— .15
"	domestica, fruits	— .50	— .55	— .60
"	" clean seeds		6.—	6.60
"	latifolia	2.—	2.20	2.40
"	scandica	— .70	— .80	— .90
"	torminalis	— .40	— .45	— .50
SPARTIUM	junceum	— .40	— .45	— .50
"	scoparium, broom 1.000 lbs. — .20	— .22	— .25	— .30
SPIRAEA	callosa	1.20	1.30	1.40
"	fortunei	1.50	1.65	1.80
"	(Exochorda) grandiflora		4.—	4.40
"	Lindleyana	1.20	1.30	1.45
"	opulifolia	1.50	1.65	1.80
"	sorbifolia		2.—	2.20
STAPHYLEA	pinnata, European bladdernut			
	1.000 lbs. — .15	— .20	— .25	— .30
STERCULIA	platanifolia	— .60	— .70	— .80
SYMPHORICARPOS	racemosa	— .50	— .55	— .60
"	vulgaris	— .80	— .90	1.—
"	vulgaris atropurpurea	1.50	1.65	1.80
SYRINGA DILATATA	Korean Lilac			13.—
The smooth fragrance of these flowers cannot be described. A flowering field of this Syringa is among the finest sights of the world.				
SYRINGA	japonica, Japanese tree lilac		6.—	6.60
"	Josikaea	4.—	4.40	4.80
"	VULGARIS, common lilac, clean seed	2.—	2.20	2.40
"	" fruits	— .20	— .25	— .30
"	" var. flore albo, common white lilac	2.30	2.50	2.75
TAMARIX	gallica	— .60	— .70	— .80
TECOMA	(Bignonia radicans)	4.—	4.40	4.80
TILIA	americana, American Linden	— .50	— .60	— .70
"	argentea, silver lime-tree	— .25	— .30	— .35
"	PLATYPHYLLOS vel grandifolia, bigleaf lime-tree 1.000 lbs. — .20	— .22	— .25	— .30
"	SYLVESTRIS vel cordata, heartleaf lime-tree 1.000 lbs. — .26	— .30	— .35	— .40
ULEX	europaea	1.10	1.20	1.30
ULMUS	americana, white elm	— .40	— .45	— .50
"	campestris, English elm	— .25	— .30	— .35
"	effusa	— .40	— .45	— .50
"	montana, Scotch elm	— .40	— .45	— .50

Tested seed pays!

	100 lbs.	Price for:	
		10 lbs.	1 lb.
		U. S.	\$ per lb.
VACCINIUM myrtilus, myrtle berries	— .90	1.—	1.10
„ vitis idaea	— .90	1.—	1.10
VIBURNUM Carlesii (Korean Viburnum)		6.40	7.—
„ Dilatatum (White flowering Viburnum)	1.80	2.—	2.20
„ furcatum	3.—	3.30	3.60
„ lantana, wayfaring tree . . 1000 lbs. —.20	— .25	— .30	— .35
VIBURNUM ODORATISSIMUM			
Large evergreen with fine coral red berries, which turn scarlet in autumn. Bright green large and thick foliage	3.—	3.30	3.60
Highest ornamental tree,			
VIBURNUM opulus, European granberry bush,			
1000 lbs. —.35	— .40	— .45	— .50
„ Sieboldi (Seasame fragrant shrub)		3.—	3.30
„ tinus, laurustinus	— .25	— .30	— .35
„ tomentosum	3.—	3.30	3.60
VIRGILIA lutea vel cladrastis tinctoria	2.—	2.20	2.40
VITEX agnus-castus	— .45	— .50	— .55
„ album	— .80	— .90	1.—
VITIS brevipedunculata	2.—	2.20	2.40
„ Coignetiae, Gloryvine		2.—	2.20
WASHINGTONIA robusta (Pritchardia) 10.000 seeds 15.—		1000 seeds	1.80
WEIGELIA rosea			16.—
„ mixtae var.			25.—
WISTARIA (Glycinia) chinensis, blue Chinese wisteria	2.—	2.20	2.40
„ „ „ purple	1.60	1.80	2.—
„ „ „ frutescens, American wisteria	1.80	2.—	2.20
„ frutescens, white	3.—	3.30	3.60
„ multijuga	3.50	3.90	4.30
Zelkova Keaki	1.80	2.—	2.20

Eucalyptus sorts:

	1 lb.	Price for:	
		1 oz.	
		U. S.	\$
E. agglomerator	10.—	— .80	
E. amygdalina (Peppermint Tree)	9.—	— .75	
E. Baueriana	11.—	— .90	
E. Bosistoana	10.—	— .80	
E. botryoides (Bastard Mahogany)	9.—	— .75	
E. calophylla (Marri)	11.—	— .90	
E. capitellata (Stringy Bark)	9.—	— .75	
E. cinerea (Argyle Apple)	9.—	— .75	
E. citriodora (Lemon scented Gum)	12.—	1.—	
E. coccifera	45.—	3.50	
E. colossea vel diversicolor	9.—	— .75	
E. consideniana	10.—	— .80	
E. coriacea (Drooping Gum)	9.—	— .75	
E. cornuta (Yeit Tree)	9.—	— .75	
E. corynocalyx (Sugar Gum)	9.—	— .75	
E. crebra (Red Iron Bark)	10.—	— .80	
E. Deanei	10.—	— .80	
E. eugenioides (Stringy Bark)	9.—	— .75	
E. fastigiata (Mountain ash)	11.—	— .90	
E. ficifolia	14.—	1.20	

Test your seeds!

		Price for:	
		1 lb.	1 oz.
		U. S. \$	U. S. \$
E. gigantea syn. delegatensis		11.—	— .90
E. globulus (Blue Gum)	100 lbs. 3.—, 10 lbs. 3.50	4.—	— .35
E. gomphocephala (Tooart Tree)		11.—	— .90
E. goniocalyx (Bastard Box)		11.—	— .90
E. gunnii (Swamp Gum)		12.—	1.—
E. Lehmanni		10.—	— .80
E. leucoxylon (Iron Bark)		10.—	— .80
E. longifolia (Woolly Butt)		11.—	— .90
E. Mac Arthuri (Swamp or River Wollybutt)		11.—	— .90
E. macrocarpa (Morrall)		12.—	1.—
E. maculata (Spotted Gum)		11.—	— .90
E. maculosa		11.—	— .90
E. Maideni		11.—	— .90
E. marginata (Jarrah)		11.—	— .90
E. melliodora (Yellow Box)		10.—	— .80
E. microcorys (Tallow Wood)		10.—	— .80
E. Mulleriana		10.—	— .80
E. obliqua vel gigantea (Stringy Bark)		10.—	— .80
E. occidentalis (Flat topped Yate or Mallet Bark)		13.—	1.10
E. ovata		11.—	— .90
E. paniculata (White Iron Bark)		10.—	— .80
E. platyphylla		11.—	— .90
E. pilularis (Black Butt)		10.—	— .80
E. polyanthemom (Red Box)		10.—	— .80
E. populifolia		11.—	— .90
E. punctata (Leather Jacket)		10.—	— .80
E. quadrangulata		11.—	— .90
E. regnans (Victoria Mountain Ash)		14.—	1.20
E. resinifera (Forest Mahogany)		9.—	— .75
E. robusta (Swamp Mahogany)	10 lbs. 4.50	5.—	— .40
E. rostrata (Red Gum)	10 lbs. 7.30	8.—	— .65
E. rubida (White Gum)		10.—	— .80
E. saligna (salicifolia, Flooded Gum)		10.—	— .80
E. siderophloea (Red Iron Bark)		11.—	— .90
E. sideroxylon		11.—	— .90
E. Sieberiana vel virgata (Gum Top)		10.—	— .80
E. Smithii		11.—	— .90
E. squamosa		10.—	— .80
E. Stuartiana (Apple scented Gum)		10.—	— .80
E. tereticornis (Grey Gum)		10.—	— .80
E. umbra		10.—	— .80
E. urnigera		150.—	12.—
E. viminalis (Manna Gum)		10.—	— .80

Fruit-Seeds (Pits):

		Price for:		
		100 lbs.	10 lbs.	1 lb.
		U. S. \$	U. S. \$	per lb.
AMYGDALUS communis, Almond		— .14	— .17	— .20
" " amara, Bitter Almond		— .14	— .17	— .20
" " Davidiana		— .90	1.—	1.10
" " Persica, Peach Tree		— .07	— .09	— .12
ARMENIACA vulgaris, Apricot Tree		— .07	— .09	— .12
CERASUS (Prunus) avium, Mazzard Cherry		— .10	— .12	— .15
" " sylvestris		— .45	— .50	— .55
" " Mahaleb, fruits	1000 lbs. — .13	— .15	— .18	— .20
" " Mahaleb, clean pits	1000 lbs. — .30	— .33	— .36	— .40

Use Grünwald's Tester!

		Price for:		
		100 lbs.	10 lbs.	1 lb.
		U. S.	\$ per lb.	
CERASUS (Prunus) Padus, European Bird Cherry		— .80	— .90	1. —
„ „ serotina, Black Cherry		1. —	1.10	1.20
„ „ vulgaris (austera), Sour Pie		— .07	— .09	— .12
CYDONIA japonica, Japanese Quince		1.80	2. —	2.20
„ vulgaris, European Quince		1.10	1.20	1.30
MALUS communis (Pirus malus) Apple tree, from				
grafted trees . 1.000 lbs. — .20		— .22	— .25	— .30
„ crab or wild apple seed, mild 1.000 lbs. — .20		— .22	— .25	— .30
MORUS alba, White Mulberry 1.000 lbs. — .58		— .64	— .70	— .80
„ „ var. fructo nigro, Black Mulberry,				
1.000 lbs. — .58		— .64	— .70	— .80
„ „ var. japonica, Japanese Mulberry		3. —	3.30	3.60
„ „ var. tatarica, Russian Mulberry		3.50	3.90	4.30
„ Moretti		2.20	2.40	2.60
PIRUS communis , Pear Tree				
from grafted trees 1.000 lbs. — .50		— .55	— .60	— .70
crab or wild pear seed, mild . 1.000 lbs. — .40		— .45	— .50	— .55
„ (malus) baccata		— .13	— .15	— .17
„ „ paradisiaca		— .60	— .70	— .80
„ japonica				5. —
„ ussuriensis, Genuine China Pear		4. —	4.40	4.80
PRUNUS cerasifera vel myrabolana, Myrobolan Plum				
1 000 lbs. — .11		— .13	— .15	— .17
„ domestica 1.000 lbs. — .06		— .08	— .10	— .12
„ domestica var. damascena, Damas Plum				
1.000 lbs. — .18		— .20	— .22	— .25
„ domestica var. Juliana, Julian Plum				
1.000 lbs. — .12		— .15	— .17	— .20
RIBES gordonianum			5. —	5.50
„ Grossularia, Gooseberry			5. —	5.50
„ multiflorum			6. —	6.60
„ nigrum, Black Currant			5. —	5.50
„ rubrum, Red Currant		— .60	— .70	— .80
„ „ var., White Currant		— .70	— .80	— .90
ROSA canina, clean seed 1.000 lbs. — .10		— .12	— .15	— .17
„ laxa, fruits		1. —	1.10	1.20
„ polyantha (multiflora), Japanese Rose		1.20	1.30	1.45
„ rubiginosa, Sweet-Brier		— .60	— .70	— .80
„ rugosa, Rugosa rose		1.60	1.75	1.90
RUBUS fruticosus, Bramble		— .40	— .45	— .50
„ Idaeus, Raspberry		— .40	— .45	— .50

Seedlings and plants of coniferous trees and broad-leaved trees, wild plants of fruit-trees, hardy and well rooted, and all species of roses.

Kindly ask my special list on the above items.

Terms and Conditions.

PRICES: They are given in U. S. Gold Dollars and Cents free Wiener-Neustadt. Packing and forwarding-(shipping) expenses are not included, they are charged separately at cost-price. Less than 500 lbs. are calculated at 100 lbs. rate, less than 50 lbs. at 10 lbs. rate, less than 5 lbs. at 1 lb. rate. Less than 1 lb. addition of 20%. Less than 2 oz. cannot be sold. While I do not think there will be any serious change, all prices are made subject to market-changes and prior sale without previous notice.

This catalogue cancels all previous offers.

PAYMENT: 5% discount is allowed for orders accompanied with cash for the full value of the order. Orders from parties unknown will not be accepted unless accompanied by remittance. For the parties of approved credit special terms on agreement. Credit charges usually carry a 10% advance over my regular prices.

ORDERS: All orders are booked on the distinct understanding: „SUBJECT TO CROP OR SHORT SUPPLY BEYOND MY CONTROL“.

By placing orders at an early date, prompt delivery after harvest is ensured.

SHIPPING: Please give full shipping instructions, together with the number of the permit required for importation in the U. S. A. Otherwise best judgment will be used in forwarding the goods, which travel at consignees' risk. I take no risk for damage in transit.

LIABILITY: While using every effort to supply all seeds of true stocks and high germinating power, I give no warranty expressed or implied as to description, quality, productiveness, percentage of growth or any other matter, there being too many causes known and unknown which prevent good seeds from germinating.

If the goods are not found satisfactory on arrival, my Customers are requested to notify me at once, otherwise I do not hold myself responsible.

Any errors in filling orders will be cheerfully corrected. I like to have orders placed with me on the basis of mutual understanding and confidence and will do my utmost to thoroughly please you.

I assume no liability if unable to fill any order or portion of order in case of causes beyond my control, also when my stocks run short on account of orders previously booked or errors in estimate.

Printed by L. Beck & Sohn, Vienna.

